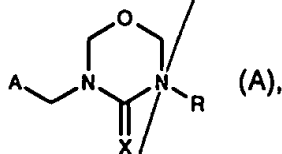


WHAT IS CLAIMED IS:

1. A composition for controlling insects or representatives of the order Acarina, which comprises a combination of variable amounts of one or more compounds of the formula



in which

A is an unsubstituted or, depending on the possibility of substitution on the ring system, mono- to tetrasubstituted, aromatic or non-aromatic monocyclic or bicyclic heterocyclic radical, in which the substituents of A are chosen from the group consisting of C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, halogen, halo-C<sub>1</sub>-C<sub>3</sub>alkyl, cyclopropyl, halocyclopropyl, C<sub>2</sub>-C<sub>3</sub>alkenyl, C<sub>2</sub>-C<sub>3</sub>alkynyl, halo-C<sub>2</sub>-C<sub>3</sub>alkenyl, halo-C<sub>2</sub>-C<sub>3</sub>alkynyl, halo-C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>alkylthio, Halo-C<sub>1</sub>-C<sub>3</sub>alkylthio, allyloxy, propargyloxy, allylthio, propargylthio, haloallyloxy, haloallylthio, cyano and nitro;

R is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, phenyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl or C<sub>2</sub>-C<sub>6</sub>alkynyl; and

X is N-NO<sub>2</sub> or N-CN,

in the free form or in salt form, if appropriate tautomers, in the free form or salt form, and one or more of the compounds:

- |                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
| (I) aldicarb;              | (XIV) zeta-Cypermethrin; | (XXVII) methamidophos;   |
| (II) azinphos-methyl;      | (XV) deltamethrin;       | (XXVIII) methomyl;       |
| (III) benfuracarb;         | (XVI) diflubenzuron;     | (XXIX) mevinphos;        |
| (IV) bifenthrin;           | (XVII) endosulfan;       | (XXX) parathion;         |
| (V) buprofezin;            | (XVIII) ethiofencarb;    | (XXXI) parathion-methyl; |
| (VI) carbofuran;           | (XIX) fenitrothion;      | (XXXII) phosalone;       |
| (VII) dibutylaminothio;    | (XX) fenobucarb;         | (XXXIII) pirimicarb;     |
| (VIII) cartap;             | (XXI) fenvalerate;       | (XXXIV) propoxur;        |
| (IX) chlorofluazuron;      | (XXII) formothion;       | (XXXV) teflubenzuron;    |
| (X) chloropyrifos;         | (XXIII) methiocarb;      | (XXXVI) terbufos;        |
| (XI) cyfluthrin;           | (XXIV) heptenophos;      | (XXXVII) triazamate;     |
| (XII) lambda-cy-halothrin; | (XXV) imidacloprid;      | (XXXVIII) abamectin;     |
| (XIII) alpha-cypermethrin; | (XXVI) isoprocarb;       | (XXXIX) fenobucarb;      |

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- (XL) tebufenozide;  
 (XLI) fipronil;  
 (XLII) beta-cyfluthrin;  
 (XLIII) silafluofen;  
 (LI) avermectin B<sub>1</sub> (abamectin);  
 (LII) a plant extract which is active against insects;  
 (LIII) a preparation which comprises nematodes which are active against insects;  
 (LIV) a preparation obtainable from *Bacillus subtilis*;  
 (LV) a preparation which comprises fungi which are active against insects;  
 (LVI) a preparation which comprises viruses which are active against insects;  
 (LVII) AC 303 630;  
 (LVIII) acephate;  
 (LIX) acrinathrin;  
 (LX) alanycarb;  
 (LXI) alphamethrin;  
 (LXII) amitraz;  
 (LXIII) AZ 60541;  
 (LXIV) azinphos A;  
 (LXV) azinphos M;  
 (LXVI) azocyclotin;  
 (LXVII) bendiocarb;  
 (LXVIII) bensultap;  
 (LXIX) betacyfluthrin;  
 (LXX) BPMC;  
 (LXXI) brofenprox;  
 (LXXII) bromophos A;  
 (LXXIII) bufencarb;  
 (LXXIV) butocarboxin;  
 (LXXV) butylpyridaben;  
 (LXXVI) cadusafos;  
 (LXXVII) carbaryl;  
 (LXXVIII) carbophenothion;  
 (XLIV) fenpyroximate;  
 (XLV) pyridaben;  
 (XLVI) fenazaquin;  
 (XLVII) pyriproxyfen;  
 (LXXIX) chloethocarb;  
 (LXXX) chloroethoxyfos;  
 (LXXXI) chloromephos;  
 (LXXXII) cis-res-methrin;  
 (LXXXIII) clocythrin;  
 (LXXXIV) clofentezin;  
 (LXXXV) cyanophos;  
 (LXXXVI) cycloprothrin;  
 (LXXXVII) cyhexatin;  
 (LXXXVIII) demeton M;  
 (LXXXIX) demeton S;  
 (XC) demeton-S-methyl;  
 (XCI) dichlofenthion;  
 (XCII) dicliphos;  
 (XCIII) diethion;  
 (XCIV) dimethoate;  
 (XCV) dimethylvinphos;  
 (XCVI) dioxathion;  
 (XCVII) edifenphos;  
 (XCVIII) emamectin;  
 (XCIX) esfenvalerate;  
 (C) ethion;  
 (CI) ethofenprox;  
 (XLVIII) pyrimidifen;  
 (XLIX) nitenpyram;  
 (L) NI-25, acetamiprid;  
 (CII) ethoprophos;  
 (CIII) etrimphos;  
 (CIV) fenamiphos;  
 (CV) fenbutatin oxide;  
 (CVI) fenothiocarb;  
 (CVII) fenpropathrin;  
 (CVIII) fenpyrad;  
 (CIX) fenthion;  
 (CX) fluazinam;  
 (CXI) flucycloxuron;  
 (CXII) flucythrinate;  
 (CXIII) flufenoxuron;  
 (CXIV) flufenprox;  
 (CXV) fonophos;  
 (CXVI) fosthiazate;  
 (CXVII) fubfenprox;  
 (CXVIII) HCH;  
 (CXIX) hexaflumuron;  
 (CXX) hexythiazox;  
 (CXXI) iprobenfos;  
 (CXXII) isofenphos;  
 (CXXIII) isoxathion;  
 (CXXIV) ivermectin;

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(CXXV) lambda-cyhalothrin;	(CXLV) pirimiphos A;	(CLXVI) thiodicarb;
(CXXVI) malathion;	(CXLVI) promecarb;	(CLXVII) thiofanox;
(CXXVII) mecarbam;	(CXLVII) propaphos;	(CLXVIII) thionazin;
(CXXVIII) mesulfenphos;	(CXLVIII) prothiofos;	(CLXIX) thuringiensin;
(CXXIX) metaldehyde;	(CXLIX) prothoate;	(CLXX) tralomethrin;
(CXXX) metolcarb;	(CL) pyrachlophos;	(CLXXI) triarthen;
(CXXXI) milbemectin;	(CLJ) pyrada-phenthion;	(CLXXII) triazophos;
(CXXXII) moxidectin;	(CLII) pyresmethrin;	(CLXXIII) triazuron;
(CXXXIII) naled;	(CLIII) pyrethrum;	(CLXXIV) trichlorofon;
(CXXXIV) NC 184;	(CLIV) RH 5992;	(CLXXV) triflumuron;
(CXXXV) omethoate;	(CLV) salithion;	(CLXXVI) trimethacarb;
(CXXXVI) oxamyl;	(CLVI) sebufos;	(CLXXVII) vamidothion;
(CXXXVII) oxydemethon M;	(CLVII) sulfotep;	(CLXXVIII) xylylcarb;
(CXXXVIII) oxydeprofos;	(CLVIII) sulprofos;	(CLXXIX) YI 5301/5302;
(CXXXIX) permethrin;	(CLIX) tebufenpyrad;	(CLXXX) zetamethrin;
(CXL) phenthoate;	(CLX) tebupirimphos;	(CLXXXI) DPX-MP062;
(CXLI) phorate;	(CLXI) tefluthrin;	(CLXXXII) RH-2485;
(CXLII) phosmet;	(CLXII) temephos;	(CLXXXIII) D 2341; or
(CXLIII) phoxim;	(CLXIII) terbam;	(CLXXXIV) XMC (3,5-
(CXLIV) pirimiphos M;	(CLXIV) tetrachloro-	xylylmethylcarbamate),
and at least one auxiliary.	vinphos;	
	(CLXV) thiafenox;	

2. A composition according to claim 1, in which, in the compound of the formula (A), R is hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl or C<sub>2</sub>-C<sub>6</sub>alkynyl.
3. A composition according to claim 1 or 2, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 2 to 4 double bonds.
4. A composition according to any one of claims 1 to 3, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 1 up to and including 4 heteroatoms.

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5. A composition according to any one of claims 1 to 4, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 1, 2 or 3 heteroatoms, chosen from the group consisting of oxygen, sulfur and nitrogen, not more than one of the heteroatoms contained in the cyclic base skeleton being an oxygen or a sulfur atom.

6. A composition according to any one of claims 1 to 5, in which, in the compound of the formula (A) the cyclic base skeleton of A is mono- or disubstituted by substituents chosen from the group consisting of halogen and C<sub>1</sub>-C<sub>3</sub>alkyl.

7. A composition according to any one of claims 1 to 6, in which, in the compound of the formula (A), the cyclic base skeleton of A is a pyridyl, 1-oxypyridinio or thiazolyl group.

8. A composition according to any one of claims 1 to 7, in which, in the compound of the formula (A), X is N-NO<sub>2</sub>.

9. A composition according to claim 1, which comprises either

(A.1) (2-chloropyrid-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.2) (2-chlorothiazol-5-ylmethyl)-3-ethyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.3) 3-methyl-4-nitroimino-5-(1-oxido-3-pyridinimethyl)-perhydro-1,3,5-oxadiazine;

(A.4) (2-chloro-1-oxido-5-pyridinimethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.5) (2-chlorothiazol-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.6) 3-methyl-5-(2-methylpyrid-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.7) (2-chloropyrid-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.8) (2-chlorothiazol-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine; or

(A.9) (2-chloropyrid-5-ylmethyl)-3-ethyl-4-nitroimino-perhydro-1,3,5-oxadiazine.

10. A composition according to any one of claims 1 to 9, which comprises 5-(2-chlorothiazol-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine.

11. A composition according to any one of claims 1 to 10, which comprises only one of the compounds (I) to (CLXXXIV).

12. A composition according to any one of claims 1 to 11 which comprises pyriproxyfen.

13. A composition according to any one of claims 1 to 11, which comprises fipronil.

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14. A composition according to any one of claims 1 to 11, which comprises endosulfan.
  15. A composition according to any one of claims 1 to 11, which comprises buprofezin.
  16. A composition according to any one of claims 1 to 11, which comprises pirimicarb.
  17. A method of controlling pests, which comprises applying a composition as defined in any one of claims 1 to 16, to the pests or their environment.
  18. A method according to claim 17, for the protection of plant propagation material, which comprises treating the plant propagation material or the site where the propagation material is brought out.
  19. A process for the preparation of a composition comprising at least one auxiliary as defined in any one of claims 1 to 16, which comprises intimately mixing the active compounds with the auxiliary or auxiliaries.
  20. Plant propagation material treated by the method defined in claim 18.
  21. The use of a composition as defined in any one of claims 1 to 16, in a method as defined in claim 17 or 18.
  22. The use of a compound of the formula (A), in the free form or in an agrochemically usable salt form, for the preparation of a composition as defined in any one of claims 1 to 16.
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